## SEQUENCE LISTING

<110>	John P. Carulli et al.
<120>	THE HIGH BONE MASS GENE OF 11q13.3
<130>	032796-014
<150>	US 09/229,319
<151>	1999-01-13
<150>	US 60/071,449
<151>	1998-01-13
<150>	US 60/105,511
<151>	1998-10-23
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<213>	Homo sapiens

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Me	t Glu Ala Ala I	ro Pro Gly F	Pro Pro Trp Pro Leu	Leu
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ctg ctg ctg c	tg ctg ctg ctg	gcg ctg tgc	ggc tgc ccg gcc ccc	gcc 157
Leu Leu Leu L	eu Leu Leu Leu	Ala Leu Cys	Gly Cys Pro Ala Pro	Ala
15	20		25	
gcg gcc tcg c	cg ctc ctg cta	ttt gcc aac	cgc cgg gac gta cgg	ctg 205
Ala Ala Ser P	ro Leu Leu Leu	Phe Ala Asn	Arg Arg Asp Val Arg	Leu
30	35		40	45

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gtg	gac	gcc	ggc	gga	gtc	aag	ctg	gag	tcc	acc	atc	gtg	gtc	agc	ggc	253
Val	Asp	Ala	Gly	Gly	Val	Lys	Leu	Glu	Ser	Thr	Ile	Val	Val	Ser	Gly	
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ctg	gag	gat	gcg	gcc	gca	gtg	gac	ttc	cag	ttt	tcc	aag	gga	gcc	gtg	301
Leu	Glu	Asp	Ala	Ala	Ala	Val	Asp	Phe	Gln	Phe	Ser	Lys	Gly	Ala	Val	
			65					70					75			
tac	tgg	aca	gac	gtg	agc	gag	gag	gcc	atc	aag	cag	acc	tac	ctg	aac	349
Tyr	Trp	Thr	Asp	Val	Ser	Glu	Glu	Ala	Ile	Lys	Gln	Thr	Tyr	Leu	Asn	
		80					85					90				
cag	acg	<b>g</b> gg	gcc	gcc	gtg	cag	aac	gtg	gtc	atc	tcc	ggc	ctg	gtc	tct	397
Gln	Thr	Gly	Ala	Ala	Val	Gln	Asn	Val	Val	Ile	Ser	Gly	Leu	Val	Ser	
	95					100					105					
ccc	gac	ggc	ctc	gcc	tgc	gac	tgg	gtg	ggc	aag	aag	ctg	tac	tgg	acg	445
Pro	Asp	Gly	Leu	Ala	Cys	Asp	Trp	Val	Gly	Lys	Lys	Leu	Tyr	Trp	Thr	
110					115					120					125	
gac	tca	gag	acc	aac	cgc	atc	gag	gtg	gcc	aac	ctc	aat	ggc	aca	tcc	493
Asp	Ser	Glu	Thr	Asn	Arg	Ile	Glu	Val	Ala	Asn	Leu	Asn	Gly	Thr	Ser	
				130					135					140	•	
cgg	aag	gtg	gcto	ttc	: tgg	cag	gac	ctt	gac	cag	ccg	g agg	g gcc	atc	gcc	541
Arg	Lys	val	Leu	ı Phe	Trp	Gln	Asp	Leu	Asp	Gln	Pro	Arg	g Ala	Ile	e Ala	
			145	5				150					155	5		
ttg	gac	c cc	e get	cac	999	, tac	atg	tac	tgg	g aca	gad	tgg	g ggt	gag	g acg	589
Leu	Asp	) Pro	o Ala	a His	s Gly	7 Tyr	Met	Tyr	Trp	Thr	Asp	o Tr	Gl3	/ Glu	ı Thr	
		16	o				165	;				17	)			
cco	cgg	g at	t gag	g cgg	g gca	a ggg	g ato	g gat	ggo	ago	aco	c cg	gaag	g ato	att	637
Pro	Arg	g Il	e Gl	u Arg	g Ala	a Gly	/ Met	. Asp	Gly	y Se	Th	r Ar	g Lys	s Il	e Ile	
	17!	5				180	)				18	5				
gt	g ga	c tc	g ga	c at	t ta	c tgg	g cco	c aat	gg:	a ct	g ac	c at	c ga	c ct	g gag	685
Va:	l As	p Se	r As	p Il	е Ту	r Tr	o Pro	Ası	n Gl	y Le	ı Th	r Il	e As	p Le	u Glu	

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Th	r Ası	) Let	ı Arg	Arg	j Ile	e Ser	Leu	ı Asp	Thr	Pro	) Asp	) Phe	e Thi	. Ası	o Ile	
350	0				355	;				360	)				365	
gt	g cto	g cag	g gtg	gac	gac	ato	: cgg	cac	gcc	att	gcc	ato	gac	: tad	c gac	1213
Val	l Lei	ı Glr	ı Val	Asp	Asp	Ile	Arg	His	Ala	Ile	Ala	ı Ile	asp	туг	Asp	
				370					375					380	)	
ccc	g cta	gag	ggc	tat	gtc	tac	tgg	aca	gat	gac	gag	gtg	r cgg	gco	atc	1261
Pro	Leu	Glu	Gly	Tyr	Val	Tyr	Trp	Thr	Asp	Asp	Glu	Val	Arg	Ala	lle	
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cgc	agg	gcg	tac	ctg	gac	aaa	tct	999	gcg	cag	acg	ctg	gtc	aac	acc	1309
Arg	Arg	Ala	Tyr	Leu	Asp	Gly	Ser	Gly	Ala	Gln	Thr	Leu	Val	Asn	Thr	
		400					405					410				
gag	atc	aac	gac	ccc	gat	ggc	atc	gcg	gtc	gac	tgg	gtg	gcc	cga	aac	1357
Glu	Ile	Asn	Asp	Pro	Asp	Gly	Ile	Ala	Val	Asp	Trp	Val	Ala	Arg	Asn	
	415					420					425					
ctc	tac	tgg	acc	gac	acg	ggc	acg	gac	cgc	atc	gag	gtg	acg	cgc	ctc	1405
Leu	Tyr	Trp	Thr	Asp	Thr	Gly	Thr	Asp	Arg	Ile	Glu	Val	Thr	Arg	Leu	
430					435					440					445	
			tcc													1453
Asn	Gly	Thr	Ser	Arg	Lys	Ile	Leu	Val	Ser	Glu	Asp	Leu	Asp	Glu	Pro	
				450					455					460		
			gca													1501
Arg	Ala	Ile	Ala	Leu	His	Pro	Val	Met	Gly	Leu	Met	Tyr	Trp	Thr	Asp	
<b>.</b>			465					470					475			
			aac													1549
Trp	GIÀ		Asn	Pro	Lys			Cys .	Ala	Asn			Gly	Gln	Glu	
caa	ca+	480	a+	~+ <i>-</i>			485					490				
			ctg													1597
n. g	495	vai	Leu	val			ser	⊥eu (	цIУ			Asn	Gly	Leu	Ala	
	4 J G					500					505					

ctg	gac	ctg	cag	gag	ggg	aag	ctc	tac	tgg	gga	gac	gcc	aag	aca	gac	1645
Leu	Asp	Leu	Gln	Glu	Gly	Lys	Leu	Tyr	Trp	Gly	Asp	Ala	Lys	Thr	Asp	
510					515					520					525	
aag	atc	gag	gtg	atc	aat	gtt	gat	999	acg	aag	agg	cgg	acc	ctc	ctg	1693
Lys	Ile	Glu	Val	Ile	Asn	Val	Asp	Gly	Thr	Lys	Arg	Arg	Thr	Leu	Leu	
				530					535					540		
gag	gac	aag	ctc	ccg	cac	att	ttc	999	ttc	acg	ctg	ctg	999	gac	ttc	1741
Glu	Asp	Lys	Leu	Pro	His	Ile	Phe	Gly	Phe	Thr	Leu	Leu	Gly	Asp	Phe	
			545					550					555			
atc	tac	tgg	act	gac	tgg	cag	cgc	cgc	agc	atc	gag	cgg	gtg	cac	aag	1789
Ile	Tyr	Trp	Thr	Asp	Trp	Gln	Arg	Arg	Ser	Ile	Glu	Arg	Val	His	Lys	
		560					565					570				
gtc	aag	gcc	agc	cgg	gac	gtc	atc	att	gac	cag	ctg	ccc	gac	ctg	atg	1837
Val	Lys	Ala	Ser	Arg	Asp	Val	Ile	Ile	Asp	Gln	Leu	Pro	Asp	Leu	Met	
	575					580					585					
999	ctc	aaa	gct	gtg	aat	gtg	gc¢	aag	gtc	gtc	gga	acc	aac	ccg	tgt	1885
Gly	Leu	Lys	Ala	Val	Asn	Val	Ala	Lys	Val	Val	Gly	Thr	Asn	Pro	Cys	
590					595					600					605	
gcg	gac	agg	aac	ggg	ggg	tgc	agc	cac	ctg	tgc	ttc	ttc	aca	ccc	cac	1933
Ala	Asp	Arg	Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Phe	Phe	Thr	Pro	His	
				610					615					620		
gca	acc	cgg	tgt	ggc	tgc	ccc	atc	ggc	ctg	gag	ctg	ctg	agt	gac	atg	1981
Ala	Thr	Arg	Cys	Gly	Cys	Pro	Ile	Gly	Leu	Glu	Leu	Leu	Ser	Asp	Met	
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Lys	Thr	Cys	Ile	Val	Pro	Glu	Ala	Phe	Leu	Val	Phe	Thr	Ser	Arg	Ala	
		640					645					650				
gcc	atc	cac	agg	atc	tcc	ctc	gag	acc	aat	aac	aac	gac	gtg	gcc	atc	2077
Ala	Ile	His	Arg	Ile	Ser	Leu	Glu	Thr	Asn	Asn	Asn	Asp	Val	Ala	Ile	

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ccg	g cto	c acg	g ggc	gto	aag	g gag	gcc	tca	gco	cts	g ga	c ttt	gat	t gt	g tcc	2125
Pro	Leı	ı Thi	Gly	v Val	Lys	s Glu	Ala	. Ser	Alá	a Lei	ı Ası	Phe	e Asp	va.	l Ser	
670	)				675	5				680	)				685	
aac	aac	cac	ato	tac	tgg	g aca	gac	gtc	ago	ctg	g aag	g acc	ato	c ago	c cgc	2173
Asn	Asr	n His	Ile	Туг	Trp	Thr	Asp	Val	Ser	Leu	Lys	Thr	Ile	e Sei	Arg	
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gco	ttc	atg	aac	999	ago	tcg	gtg	gag	cac	gtg	gtg	g gag	ttt	ggd	ctt	2221
Ala	Phe	Met	Asn	Gly	Ser	Ser	Val	Glu	His	. Val	Va]	. Glu	Phe	: Gly	Leu	
			705					710					715	i		
gac	tac	ccc	gag	ggc	atg	gcc	gtt	gac	tgg	atg	ggc	aag	aac	ctc	: tac	2269
Asp	Tyr	Pro	Glu	Gly	Met	Ala	Val	Asp	Trp	Met	Gly	Lys	Asn	Leu	Tyr	
		720					725					730				
tgg	gcc	gac	act	ggg	acc	aac	aga	atc	gaa	gtg	gcg	cgg	ctg	gac	999	2317
Trp	Ala	Asp	Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Ala	Arg	Leu	Asp	Gly	
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Gln	Phe	Arg	Gln	Val	Leu	Val	Trp	Arg	Asp	Leu	Asp	Asn	Pro	Arg	Ser	
750					755					760					765	
ctg	gcc	ctg	gat	ccc	acc	aag	ggc	tac	atc	tac	tgg	acc	gag	tgg	ggc	2413
Leu	Ala	Leu	Asp	Pro	Thr	Lys	Gly	Tyr	Ile	Tyr	Trp	Thr	Glu	Trp	Gly	
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Gly	Lys	Pro	Arg	Ile	Val	Arg	Ala	Phe	Met	Asp	Gly	Thr	Asn	Cys	Met	
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Thr	Leu	Val	Asp	Lys	Val	Gly	Arg	Ala	Asn	Asp	Leu	Thr	Ile	Asp	Tyr	
		800					805					810				
gct	gac	cag	cgc	ctc	tac	tgg	acc	gac	ctg	gac	acc	aac	atg	atc	gag	2557

Ala	Asp	Gln	Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	
	815					820					825					
tcg	tcc	aac	atg	ctg	ggt	cag	gag	cgg	gtc	gtg	att	gcc	gac	gat	ctc	2605
Ser	Ser	Asn	Met	Leu	Gly	Gln	Glu	Arg	Val	Val	Ile	Ala	Asp	Asp	Leu	
830					835					840					845	
ccg	cac	ccg	ttc	ggt	ctg	acg	cag	tac	agc	gat	tat	atc	tac	tgg	aca	2653
Pro	His	Pro	Phe	Gly	Leu	Thr	Gln	Tyr	Ser	Asp	Tyr	Ile	Tyr	Trp	Thr	
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gac	tgg	aat	ctg	cac	agc	att	gag	cgg	gcc	gac	aag	act	agc	ggc	cgg	2701
Asp	Trp	Asn	Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	
			865					870					875			
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Asn	Arg	Thr	Leu	Ile	Gln	Gly	His	Leu	Asp	Phe	Val	Met	Asp	Ile	Leu	
		880					885					890				
gtg	ttc	cac	tcc	tcc	cgc	cag	gat	ggc	ctc	aat	gac	tgt	atg	cac	aac	2797
Val	Phe	His	Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	
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910					915					920					925	
tgc	ggc	tgc	gcc	tca	cac	tac	acc	ctg	gac	ccc	agc	agc	cgc	aac	tgc	2893
Cys	Gly	Cys	Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Cys	
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agc	ccg	CCC	acc	acc	ttc	ttg	ctg	ttc	agc	cag	aaa	tct	gcc	atc	agt	2941
Ser	Pro	Pro	Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	
			945					950					955			
	_			_	_	cag										2989
Arg	Met	Ile	Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	
		960					965					970				

cat	gga	ctg	agg	aac	gtc	aaa	gcc	atc	gac	tat	gac	сса	ctg	gac	aag	3037
His	Gly	Leu	Arg	Asn	Val	Lys	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Asp	Lys	
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ttc	atc	tac	tgg	gtg	gat	999	cgc	cag	aac	atc	aag	cga	gcc	aag	gac	3085
Phe	Ile	Tyr	Trp	Val	Asp	Gly	Arg	Gln	Asn	Ile	Lys	Arg	Ala	Lys	Asp	
990					995					1000	)				1005	
gac	999	acc	cag	ccc	ttt	gtt	ttg	acc	tct	ctg	agc	caa	ggc	caa	aac	3133
Asp	Gly	Thr	Gln	Pro	Phe	Val	Leu	Thr	Ser	Leu	Ser	Gln	Gly	Gln	Asn	
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cca	gac	agg	cag	ccc	cac	gac	ctc	agc	atc	gac	atc	tac	agc	cgg	aca	3181
Pro	Asp	Arg	Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	
			1025	5				1030	)				1035	5		
ctg	ttc	tgg	acg	tgc	gag	gcc	acc	aat	acc	atc	aac	gtc	cac	agg	ctg	3229
Leu	Phe	Trp	Thr	Cys	Glu	Ala	Thr	Asn	Thr	Ile	Asn	Val	His	Arg	Leu	
		1040	)				1045	5				1050	)			
agc	<b>a</b> gg			atg	<b>a</b> gg	gtg			cgt	<b>a</b> aa	gac			aag	ccc	3277
		gaa	gcc				gtg	ctg			gac Asp	cgc	gac			3277
		gaa Glu	gcc				gtg Val	ctg				cgc Arg	gac			3277
Ser	Gly 1055	gaa Glu	gcc Ala	Met	Gly	Val	gtg Val	ctg Leu	Arg	Gly	Asp	cgc Arg	gac Asp	Lys	Pro	3277 3325
Ser agg	Gly 1055 gcc	gaa Glu atc	gcc Ala gtc	Met gtc	Gly	Val 1060 gcg	gtg Val ) gag	ctg Leu cga	Arg ggg	Gly	Asp	cgc Arg	gac Asp	Lys	Pro	
Ser agg	Gly 1055 gcc Ala	gaa Glu atc	gcc Ala gtc	Met gtc	Gly	Val 1060 gcg Ala	gtg Val ) gag	ctg Leu cga	Arg ggg	Gly	Asp 1065 ctg Leu	cgc Arg	gac Asp	Lys	Pro	
ser agg Arg	Gly 1055 gcc Ala	gaa Glu 5 atc Ile	gcc Ala gtc Val	Met gtc Val	Gly aac Asn	Val 1060 gcg Ala	gtg Val ) gag Glu	ctg Leu cga Arg	Arg ggg Gly	Gly tac Tyr	Asp 1065 ctg Leu	cgc Arg tac Tyr	gac Asp ttc Phe	Lys acc Thr	Pro aac Asn 1085	
agg Arg 1070	Gly 1055 gcc Ala Cag	gaa Glu atc Ile	gcc Ala gtc Val	Met gtc Val gca	Gly  aac  Asn  1075 gcc	Val 1060 gcg Ala 5	gtg Val gag Glu	ctg Leu cga Arg	Arg ggg Gly cgc	Gly tac Tyr 1080 gca	Asp 1065 ctg Leu	cgc Arg tac Tyr	gac Asp ttc Phe	Lys acc Thr	Pro aac Asn 1085 acc	3325
agg Arg 1070	Gly 1055 gcc Ala Cag	gaa Glu atc Ile	gcc Ala gtc Val	Met gtc Val gca	Gly  aac  Asn  1075  gcc  Ala	Val 1060 gcg Ala 5	gtg Val gag Glu	ctg Leu cga Arg	Arg ggg Gly cgc	Gly tac Tyr 1080 gca Ala	Asp 1065 ctg Leu gcc	cgc Arg tac Tyr	gac Asp ttc Phe	Lys acc Thr	Pro aac Asn 1085 acc Thr	3325
agg Arg 1070 atg	Gly 1055 gcc Ala cag Gln	gaa Glu atc Ile gac Asp	gcc Ala gtc Val cgg Arg	Met gtc Val gca Ala 1090	aac Asn 1075 gcc Ala	Val 1060 gcg Ala aag Lys	gtg Val  gag Glu atc	ctg Leu cga Arg gaa Glu	ggg Gly cgc Arg	tac Tyr 1080 gca Ala	Asp 1065 ctg Leu gcc	cgc Arg tac Tyr ctg Leu	gac Asp ttc Phe gac Asp	Lys acc Thr ggc Gly 1100	Pro  aac Asn 1085 acc Thr	3325
agg Arg 1070 atg Met	Gly 1055 gcc Ala cag Gln	gaa Glu atc Ile gac Asp	gcc Ala gtc Val cgg Arg	Met  gtc  Val  gca  Ala  1090  ctc	Gly  aac Asn 1075 gcc Ala ttc	Val 1060 gcg Ala aag Lys	gtg Val gag Glu atc Ile	ctg Leu cga Arg gaa Glu	Arg  ggg Gly  cgc Arg 1099 ctc	tac Tyr 1080 gca Ala atc	Asp 1065 ctg Leu gcc	cgc Arg tac Tyr ctg Leu cct	gac Asp ttc Phe gac Asp	Lys acc Thr ggc Gly 1100 gcc	Pro  aac Asn 1085 acc Thr	3325 3373
agg Arg 1070 atg Met	Gly 1055 gcc Ala cag Gln	gaa Glu atc Ile gac Asp	gcc Ala gtc Val cgg Arg	Met  gtc  Val  gca  Ala  1090  ctc  Leu	Gly  aac Asn 1075 gcc Ala ttc	Val 1060 gcg Ala aag Lys	gtg Val gag Glu atc Ile	ctg Leu cga Arg gaa Glu	Arg  ggg Gly  cgc Arg  1099 ctc Leu	tac Tyr 1080 gca Ala atc	Asp 1065 ctg Leu gcc Ala	cgc Arg tac Tyr ctg Leu cct	gac Asp ttc Phe gac Asp	Lys acc Thr ggc Gly 1100 gcc Ala	Pro  aac Asn 1085 acc Thr	3325 3373
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Lys	Arg	Ile	Glu	Ser	Cys	Asp	Leu	Ser	Gly	Ala	Asn	Arg	Leu	Thr	Leu	
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gag	gac	gcc	aac	atc	gtg	cag	cct	ctg	ggc	ctg	acc	atc	ctt	ggc	aag	3565
Glu	Asp	Ala	Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	Ile	Leu	Gly	Lys	
1150	)				1155	5				1160	)				1165	
cat	ctc	tac	tgg	atc	gac	cgc	cag	cag	cag	atg	atc	gag	cgt	gtg	gag	3613
His	Leu	Tyr	Trp	Ile	Asp	Arg	Gln	Gln	Gln	Met	Ile	Glu	Arg	Val	Glu	
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Lys	Thr	Thr	Gly	Asp	Lys	Arg	Thr	Arg	Ile	Gln	Gly	Arg	Val	Ala	His	
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ctc	act	ggc	atc	cat	gca	gtg	gag	gaa	gtc	agc	ctg	gag	gag	ttc	tca	3709
Leu	Thr	Gly	Ile	His	Ala	Val	Glu	Glu	Val	Ser	Leu	Glu	Glu	Phe	Ser	
		1200	)				1205	5				1210	)			
gcc	cac	cca	tgt	gcc	cgt	gac	aat	ggt	ggc	tgc	tcc	cac	atc	tgt	att	3757
Ala			Cys	Ala	Arg	Asp		Gly	Gly	Cys			Ile	Cys	Ile	
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						cca										3805
		Gly	Asp	GIÀ		Pro	Arg	Cys	Ser			Val	His	Leu		
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пеа	ьеи	GIII	ASII	1250		Thr	Суѕ	GIŞ	1255		PIO	III	Cys	1260		
cac	cac	+++	aca.			aca	aaa	aaa			tat	atc	CCC			3901
			_			Thr										000-
			1265	_	,		1	1270		r	-10		1275			
taa	cac	tat			ttt	ccc	gag	tac	qat	gac	caq	aqc	qac	gag	gag	3949

Trp	Arg	Cys	Asp	Gly	Phe	Pro	Glu	Cys	Asp	Asp	Gln	Ser	Asp	Glu	Glu	
		1280	)				1289	5				129	)			
ggc	tgc	ccc	gtg	tgc	tcc	gcc	gcc	cag	ttc	ccc	tgc	gcg	cgg	ggt	cag	3997
Gly	Cys	Pro	Val	Cys	Ser	Ala	Ala	Gln	Phe	Pro	Cys	Ala	Arg	Gly	Gln	
	1299	5				1300	)				1309	5				
tgt	gtg	gac	ctg	cgc	ctg	cgc	tgc	gac	ggc	gag	gca	gac	tgt	cag	gac	4045
Cys	Val	Asp	Leu	Arg	Leu	Arg	Cys	Asp	Gly	Glu	Ala	Asp	Cys	Gln	Asp	
131	0				1315	5				1320	)				1325	
cgc	tca	gac	gag	gtg	gac	tgt	gac	gcc	atc	tgc	ctg	CCC	aac	cag	ttc	4093
Arg	Ser	Asp	Glu	Val	Asp	Cys	Asp	Ala	Ile	Cys	Leu	Pro	Asn	Gln	Phe	
				1330	)				1335	5				1340	)	
cgg	tgt	gcg	agc	ggc	cag	tgt	gtc	ctc	atc	aaa	cag	cag	tgc	gac	tcc	4141
Arg	Cys	Ala	Ser	Gly	Gln	Cys	Val	Leu	Ile	Lys	Gln	Gln	Cys	Asp	Ser	
			1345	5				1350	)				1355	5		
ttc	ccc	gac	tgt	atc	gac	ggc	tcc	gac	gag	ctc	atg	tgt	gaa	atc	acc	4189
Phe	Pro	Asp	Cys	Ile	Asp	Gly	Ser	Asp	Glu	Leu	Met	Cys	Glu	Ile	Thr	
		1360	)				1365	5				1370	)			
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Lys	Pro	Pro	Ser	Asp	Asp	Ser	Pro	Ala	His	Ser	Ser	Ala	Ile	Gly	Pro	
	1375	5				1380	)				1385	5				
gtc	att	ggc	atc	atc	ctc	tct	ctc	ttc	gtc	atg	ggt	ggt	gtc	tat	ttt	4285
Val	Ile	Gly	Ile	Ile	Leu	Ser	Leu	Phe	Val	Met	Gly	Gly	Val	Tyr	Phe	
139	0				1395	5				1400	)				1405	
gtg	tgc	cag	cgc	gtg	gtg	tgc	cag	cgc	tat	gcg	<b>a</b> aa	gcc	aac	999	ccc	4333
Val	Cys	Gln	Arg	Val	Val	Cys	Gln	Arg	Tyr	Ala	Gly	Ala	Asn	Gly	Pro	
				1410	)				1415	5				1420	)	
	_													aat		4381
Phe	Pro	His		-	Val	Ser	Gly	Thr	Pro	His	Val	Pro	Leu	Asn	Phe	
			1425	5				1430	)				1435	5		

10.10 (1

ata go	c cc	g <b>g</b> g	c gg	t tcc	cag	r cat	ggd	ccc	c tto	c aca	a ggo	c at	c gc	a tgc	4429
Ile Al	a Pr	o Gl	y Gl	y Ser	Gln	His	Gly	/ Pro	) Phe	∍ Thi	c Gly	/ Ile	e Al	a Cys	
	14	40				144	5				145	50			
gga aa	g tc	c at	g at	g ago	tcc	gtg	ago	ctg	g ato	999	g ggd	cgg	g gg	ggg	4477
Gly Ly	s Se	r Me	t Me	Ser	Ser	Val	Ser	Leu	ı Met	: Gly	/ Gly	/ Arg	g Gl	y Gly	
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Val Pr	o Lei	ı Tyı	Asp	Arg	Asn	His	Val	Thr	Gly	Ala	. Ser	Ser	Sei	Ser	
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tcg tc	c ago	c acc	g aag	gcc	acg	ctg	tac	ccg	ccg	atc	ctg	aac	ccg	ccg	4573
Ser Se	r Sei	: Thr	Lys	Ala	Thr	Leu	Tyr	Pro	Pro	Ile	Leu	Asn	Pro	Pro	
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ccc tc	c ccc	g gcc	acg	gac	ccc	tcc	ctg	tac	aac	atg	gac	atg	ttc	tac	4621
Pro Se	r Pro	Ala	Thr	Asp	Pro	Ser	Leu	Tyr	Asn	Met	Asp	Met	Phe	Tyr	
		150	5				1510	)				151	5		
tct tca	a aac	att	ccg	gcc	act	gcg	aga	ccg	tac	agg	ccc	tac	atc	att	4669
Ser Se	Asn	Ile	Pro	Ala	Thr	Ala	Arg	Pro	Tyr	Arg	Pro	Tyr	Ile	Ile	
	152	0				1525	i				153	)			
cga gga	atg	gcg	ccc	ccg	acg	acg	ccc	tgc	agc	acc	gac	gtg	tgt	gac	4717
Arg Gly	Met	Ala	Pro	Pro	Thr	Thr	Pro	Cys	Ser	Thr	Asp	Val	Cys	Asp	
153	5				1540					1545	5				
agc gad	tac	agc	gcc	agc	cgc	tgg	aag	gcc	agc	aag	tac	tac	ctg	gat	4765
Ser Asp	Tyr	Ser	Ala	Ser	Arg	Trp	Lys	Ala	Ser	Lys	Tyr	Tyr	Leu	Asp	
1550				1555					1560					1565	
ttg aac															4813
Leu Asn	Ser	Asp	Ser	Asp	Pro '	Tyr	Pro	Pro	Pro	Pro	Thr	Pro	His	Ser	
			1570					1575					1580		
cag tac															4861
Gln Tyr	Leu	Ser	Ala	Glu .	Asp :	Ser (	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Glu	

The first proof proof of the first proof of the fir

	1585	1590	1595
agg agc tac	ttc cat ctc ttc	ceg ece ect eeg tee	
		Pro Pro Pro Pro Ser	
160			1610
tca tcc tgad	cetegge egggeeact	c tggcttctct gtgcccc	
Ser Ser			3 1113
1615			
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gccggacaac a	tg gag gca gcg cc	g ccc ggg ccg ccg tg	g ccg ctg ctg 109
M	et Glu Ala Ala Pr	o Pro Gly Pro Pro Tr	p Pro Leu Leu
1	5	10	
ctg ctg ctg	ctg ctg ctg ctg go	cg ctg tgc ggc tgc c	eg gee eee gee 157
Leu Leu Leu 1	Leu Leu Leu A	la Leu Cys Gly Cys P	ro Ala Pro Ala
15	20	25	
		tt gcc aac cgc cgg ga	
	Pro Leu Leu Leu Pl	he Ala Asn Arg Arg As	sp Val Arg Leu
30	35	40	45
		tg gag tcc acc atc gt	
Val Asp Ala (	ly Gly Val Lys Le	eu Glu Ser Thr Ile Va	al Val Ser Gly

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ctg gag gat gcg gcc gca gtg gac ttc cag ttt tcc aag gga gcc gtg Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val tac tgg aca gac gtg agc gag gcc atc aag cag acc tac ctg aac Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr gac toa gag acc aac cgc atc gag gtg gcc aac ctc aat ggc aca tcc Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser egg aag gtg ete tte tgg eag gae ett gae eag eeg agg gee ate gee Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala ttg gac ccc gct cac ggg tac atg tac tgg aca gac tgg gtt gag acg Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt 

The state of the s

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gtg	ctg	cag	gtg	gac	gac	atc	cgg	cac	gcc	att	gcc	atc	gac	tac	gac	1213
Val	Leu	Gln	Val	Asp	Asp	Ile	Arg	His	Ala	Ile	Ala	Ile	Asp	Tyr	Asp	
				370					375					380		
ccg	cta	gag	ggc	tat	gtc	tac	tgg	aca	gat	gac	gag	gtg	cgg	gcc	atc	1261
Pro	Leu	Glu	Gly	Tyr	Val	Tyr	Trp	Thr	Asp	Asp	Glu	Val	Arg	Ala	Ile	
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cgc	agg	gcg	tac	ctg	gac	<b>a</b> aa	tct	999	gcg	cag	acg	ctg	gtc	aac	acc	1309
Arg	Arg	Ala	Tyr	Leu	Asp	Gly	Ser	Gly	Ala	Gln	Thr	Leu	Val	Asn	Thr	
		400					405					410				
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Glu	Ile	Asn	Asp	Pro	Asp	Gly	Ile	Ala	Val	Asp	Trp	Val	Ala	Arg	Asn	
	415					420					425					
ctc	tac	tgg	acc	gac	acg	ggc	acg	gac	cgc	atc	gag	gtg	acg	cgc	ctc	1405
Leu	Tyr	Trp	Thr	Asp	Thr	Gly	Thr	Asp	Arg	Ile	Glu	Val	Thr	Arg	Leu	
430					435					440					445	
	ggc	acc	tcc	cgc	435 aag	atc	ctg	gtg	tcg		gac	ctg	gac	gag		1453
aac										gag					ccc	1453
aac					aag					gag					ccc	1453
aac Asn	Gly	Thr	Ser	Arg 450	aag	Ile	Leu	Val	Ser 455	gag Glu	Asp	Leu	Asp	Glu 460	ccc Pro	1453 1501
aac Asn cga	Gly gcc	Thr	Ser gca	Arg 450 ctg	aag Lys	Ile	Leu gtg	Val atg	Ser 455 ggc	gag Glu ctc	Asp atg	Leu tac	Asp tgg	Glu 460 aca	ccc Pro gac	
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aac Asn cga Arg	Gly gcc Ala gga	Thr atc Ile	gca Ala 465 aac	Arg 450 ctg Leu cct	aag Lys cac His	Ile ccc Pro	Leu gtg Val gag	Val atg Met 470 tgt	ser 455 ggc Gly	gag Glu ctc Leu	Asp atg Met ttg	Leu tac Tyr	Asp tgg Trp 475	Glu 460 aca Thr	ccc Pro gac Asp	1501
aac Asn cga Arg	Gly gcc Ala gga	Thr atc Ile	gca Ala 465 aac	Arg 450 ctg Leu cct	aag Lys cac His	Ile ccc Pro	Leu gtg Val gag	Val atg Met 470 tgt	ser 455 ggc Gly	gag Glu ctc Leu	Asp atg Met ttg	Leu tac Tyr	Asp tgg Trp 475	Glu 460 aca Thr	ccc Pro gac Asp	1501
aac Asn cga Arg tgg	gcc Ala gga Gly	Thr atc Ile gag Glu 480	gca Ala 465 aac Asn	Arg 450 ctg Leu cct	aag Lys cac His	Ile ccc Pro atc Ile	Leu gtg Val gag Glu 485	Val atg Met 470 tgt Cys	Ser 455 ggc Gly gcc Ala	gag Glu ctc Leu aac	Asp atg Met ttg Leu	tac Tyr gat Asp	tgg Trp 475 ggg Gly	Glu 460 aca Thr cag	ccc Pro gac Asp gag Glu	1501
aac Asn cga Arg tgg Trp	Gly gcc Ala gga Gly cgt Arg	Thr atc Ile gag Glu 480 gtg	gca Ala 465 aac Asn	Arg 450 ctg Leu cct Pro	aag Lys cac His aaa Lys	Ile  ccc Pro  atc Ile  gcc Ala	Leu gtg Val gag Glu 485 tcc	Val atg Met 470 tgt Cys	Ser 455 ggc Gly gcc Ala	gag Glu ctc Leu aac Asn	Asp  atg  Met  ttg  Leu  ccc	tac Tyr gat Asp 490 aac	tgg Trp 475 ggg Gly	Glu 460 aca Thr cag Gln	ccc Pro  gac Asp  gag Glu	1501 1549
aac Asn cga Arg tgg Trp	gcc Ala gga Gly	Thr atc Ile gag Glu 480 gtg	gca Ala 465 aac Asn	Arg 450 ctg Leu cct Pro	aag Lys cac His aaa Lys	Ile  ccc Pro  atc Ile	Leu gtg Val gag Glu 485 tcc	Val atg Met 470 tgt Cys	Ser 455 ggc Gly gcc Ala	gag Glu ctc Leu aac Asn	Asp  atg  Met  ttg  Leu  ccc	tac Tyr gat Asp 490 aac	tgg Trp 475 ggg Gly	Glu 460 aca Thr cag Gln	ccc Pro  gac Asp  gag Glu	1501 1549
aac Asn cga Arg tgg Trp cgg Arg	gcc Ala gga Gly cgt Arg 495 gac	Thr atc Ile gag Glu 480 gtg Val	gca Ala 465 aac Asn ctg Leu cag	Arg 450 ctg Leu cct Pro gtc Val	aag Lys cac His aaa Lys	Ile  ccc Pro  atc Ile  gcc Ala 500 aag	Leu gtg Val gag Glu 485 tcc Ser	Val atg Met 470 tgt Cys ctc Leu	Ser 455 ggc Gly gcc Ala ggg Gly	gag Glu ctc Leu aac Asn tgg Trp	Asp  atg  Met  ttg  Leu  ccc  Pro  505  gac	Leu tac Tyr gat Asp 490 aac Asn	tgg Trp 475 ggg Gly ggc Gly	Glu 460 aca Thr cag Gln ctg Leu aca	ccc Pro  gac Asp  Glu  gcc Ala	1501 1549

510					515					520					525		
aag	atc	gag	gtg	atc	aat	gtt	gat	ggg	acg	aag	agg	cgg	acc	ctc	ctg	:	1693
Lys	Ile	Glu	Val	Ile	Asn	Val	Asp	Gly	Thr	Lys	Arg	Arg	Thr	Leu	Leu		
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gag	gac	aag	ctc	ccg	cac	att	ttc	999	ttc	acg	ctg	ctg	999	gac	ttc		1741
Glu	Asp	Lys	Leu	Pro	His	Ile	Phe	Gly	Phe	Thr	Leu	Leu	Gly	Asp	Phe		
			545					550					555				
atc	tac	tgg	act	gac	tgg	cag	cgc	cgc	agc	atc	gag	cgg	gtg	cac	aag	:	1789
Ile	Tyr	Trp	Thr	Asp	Trp	Gln	Arg	Arg	Ser	Ile	Glu	Arg	Val	His	Lys		
		560					565					570					
gtc	aag	gcc	agc	cgg	gac	gtc	atc	att	gac	cag	ctg	ccc	gac	ctg	atg	:	1837
Val	Lys	Ala	Ser	Arg	Asp	Val	Ile	Ile	Asp	Gln	Leu	Pro	Asp	Leu	Met		
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999	ctc	aaa	gct	gtg	aat	gtg	gcc	aag	gtc	gtc	gga	acc	aac	ccg	tgt	3	1885
Gly	Leu	Lys	Ala	Val	Asn	Val	Ala	Lys	Val	Val	Gly	Thr	Asn	Pro	Cys		
590					595					600					605		
gcg	gac	agg	aac	aaa	aaa	tgc	agc	cac	ctg	tgc	ttc	ttc	aca	ccc	cac	1	1933
Ala	Asp	Arg	Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Phe	Phe	Thr	Pro	His		
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gca	acc	cgg	tgt	ggc	tgc	ccc	atc	ggc	ctg	gag	ctg	ctg	agt	gac	atg	1	1981
Ala	Thr	Arg	Cys	Gly	Cys	Pro	Ile	Gly	Leu	Glu	Leu	Leu	Ser	Asp	Met		
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aag	acc	tgc	atc	gtg	cct	gag	gcc	ttc	ttg	gtc	ttc	acc	agc	aga	gcc	2	2029
Lys	Thr	Cys	Ile	Val	Pro	Glu	Ala	Phe	Leu	Val	Phe	Thr	Ser	Arg	Ala		
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gcc	atc	cac	agg	atc	tcc	ctc	gag	acc	aat	aac	aac	gac	gtg	gcc	atc	2	2077
Ala	Ile	His	Arg	Ile	Ser	Leu	Glu	Thr	Asn	Asn	Asn	Asp	Val	Ala	Ile		
	655					660					665						
ccg	ctc	acg	ggc	gtc	aag	gag	gcc	tca	gcc	ctg	gac	ttt	gat	gtg	tcc	2	2125

Pro	Leu	Thr	Gly	Val	Lys	Glu	Ala	Ser	Ala	Leu	Asp	Phe	Asp	Val	Ser	
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Asn	Asn	His	Ile	Tyr	Trp	Thr	Asp	Val	Ser	Leu	Lys	Thr	Ile	Ser	Arg	
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Ala	Phe	Met	Asn	Gly	Ser	Ser	Val	Glu	His	Val	Val	Glu	Phe	Gly	Leu	
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gac	tac	ccc	gag	ggc	atg	gcc	gtt	gac	tgg	atg	ggc	aag	aac	ctc	tac	2269
Asp	Tyr	Pro	Glu	Gly	Met	Ala	Val	Asp	Trp	Met	Gly	Lys	Asn	Leu	Tyr	
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Trp	Ala	Asp	Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Ala	Arg	Leu	Asp	Gly	
	735					740					745					
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Gln	Phe	Arg	Gln	Val	Leu	Val	Trp	Arg	Asp	Leu	Asp	Asn	Pro	Arg	Ser	
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Ala	Asp	Gln	Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	
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Pro	His	Pro	Phe	Gly	Leu	Thr	Gln	Tyr	Ser	Asp	Tyr	Ile	Tyr	Trp	Thr	
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Asp	Trp	Asn	Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	
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gtg	ttc	cac	tcc	tcc	cgc	cag	gat	ggc	ctc	aat	gac	tgt	atg	cac	aac	2797
Val	Phe	His	Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	
	895					900					905					
aac	999	cag	tgt	999	cag	ctg	tgc	ctt	gcc	atc	ccc	ggc	ggc	cac	cgc	2845
Asn	Gly	Gln	Cys	Gly	Gln	Leu	Cys	Leu	Ala	Ile	Pro	Gly	Gly	His	Arg	
910					915					920					925	
tgc	ggc	tgc	gcc	tca	cac	tac	acc	ctg	gac	ccc	agc	agc	cgc	aac	tgc	2893
Cys	Gly	Cys	Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Суѕ	
				930					935					940		
agc	ccg	ccc	acc	acc	ttc	ttg	ctg	ttc	agc	cag	aaa	tct	gcc	atc	agt	2941
Ser	Pro	Pro	Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	
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cgg	atg	atc	ccg	gac	gac	cag	cac	agc	ccg	gat	ctc	atc	ctg	ccc	ctg	2989
Arg	Met	Ile	Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	
		960					965					970				
cat	gga	ctg	agg	aac	gtc	aaa	gcc	atc	gac	tat	gac	cca	ctg	gac	aag	3037
His	Gly	Leu	Arg	Asn	Val	Lys	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Asp	Lys	

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	975	5				980	)				985	5				
ttc	ato	tac	tgg	gtg	gat	ggg	g cgc	cag	, aac	ato	aag	g cga	gco	aag	g gac	3085
Phe	Ιle	e Tyr	Trp	Val	Asp	Gly	' Arg	Glm	Asr	ı Ile	Lys	a Arg	Ala	Lys	Asp	
990					995	i				100	00				1005	
gac	ggg	acc	cag	ccc	ttt	gtt	ttg	acc	tct	ctg	ago	caa	ggc	caa	aac	3133
Asp	Gly	Thr	Gln	Pro	Phe	Val	Leu	Thr	Ser	Leu	Ser	Gln	Gly	Gln	Asn	
				101	0				101	5				102	0	
сса	gac	agg	cag	ccc	cac	gac	ctc	agc	ato	gac	ato	tac	agc	cgg	aca	3181
Pro	Asp	Arg	Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	
			102	5				103	0				103	5		
ctg	ttc	tgg	acg	tgc	gag	gcc	acc	aat	acc	atc	aac	gtc	cac	agg	ctg	3229
Leu	Phe	Trp	Thr	Cys	Glu	Ala	Thr	Asn	Thr	Ile	Asn	Val	His	Arg	Leu	
		104	0				104	5				105	0			
agc	999	gaa	gcc	atg	999	gtg	gtg	ctg	cgt	999	gac	cgc	gac	aag	ccc	3277
Ser	Gly	Glu	Ala	Met	Gly	Val	Val	Leu	Arg	Gly	Asp	Arg	Asp	Lys	Pro	
	105	5				106	)				106	5				
agg	gcc	atc	gtc	gtc	aac	gcg	gag	cga	999	tac	ctg	tac	ttc	acc	aac	3325
Arg	Ala	Ile	Val	Val	Asn	Ala	Glu	Arg	Gly	Tyr	Leu	Tyr	Phe	Thr	Asn	
1070	)				1079	5				1080	o				1085	
atg	cag	gac	cgg	gca	gcc	aag	atc	gaa	cgc	gca	gcc	ctg	gac	ggc	acc	3373
Met	Gln	Asp	Arg	Ala	Ala	Lys	Ile	Glu	Arg	Ala	Ala	Leu	Asp	Gly	Thr	
				1090	)				1095	5				1100	)	
gag	cgc	gag	gtc	ctc	ttc	acc	acc	ggc	ctc	atc	cgc	cct	gtg	gcc	ctg	3421
Glu	Arg	Glu	Val	Leu	Phe	Thr	Thr	Gly	Leu	Ile	Arg	Pro	Val	Ala	Leu	
			1105					1110					1115	,		
gtg	gtg	gac	aac	aca	ctg	ggc	aag	ctg	ttc	tgg	gtg	gac	gcg	gac	ctg	3469
Val	Val	Asp	Asn	Thr	Leu	Gly	Lys	Leu	Phe	Trp	Val	Asp	Ala	Asp	Leu	
		1120	ı				1125					1130				
aag	cgc	att	gag	agc	tgt	gac	ctg	tca	<b>a</b> aa	gcc	aac	cgc	ctg	acc	ctg	3517

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Lys	arg	, Ile	e Glu	. Ser	. Cys	Asp	Leu	ı Ser	Gl <sub>y</sub>	/ Ala	a Ası	n Arg	j Lei	ı Thi	Leu		
	113	5				114	0				114	15					
gag	gac	gcc	aac	ato	gtg	cag	cct	ctg	ggc	ctg	aco	ato	ctt	ggc	aag		3565
Glu	Asp	Ala	Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	: Ile	: Leı	ı Gly	' Lys		
115	0				115	5				116	0				1165		
cat	ctc	tac	tgg	atc	gac	cgc	cag	cag	cag	atg	ato	gag	cgt	gtg	gag		3613
His	Leu	Tyr	Trp	Ile	Asp	Arg	Gln	Gln	Gln	Met	Ile	Glu	Arg	y Val	Glu		
				117	0				117	5				118	0		
aag	acc	acc	999	gac	aag	cgg	act	cgc	atc	cag	ggd	cgt	gto	gcc	cac		3661
Lys	Thr	Thr	Gly	Asp	Lys	Arg	Thr	Arg	Ile	Gln	Gly	Arg	Val	Ala	His		
			118	5				119	0				119	5			
ctc	act	ggc	atc	cat	gca	gtg	gag	gaa	gtc	agc	ctg	gag	gag	ttc	tca		3709
Leu	Thr	Gly	Ile	His	Ala	Val	Glu	Glu	Val	Ser	Leu	Glu	Glu	Phe	Ser		
		120	0				120	5				121	0				
gcc	cac	cca	tgt	gcc	cgt	gac	aat	ggt	ggc	tgc	tcc	cac	atc	tgt	att		3757
Ala	His	Pro	Cys	Ala	Arg	Asp	Asn	Gly	Gly	Cys	Ser	His	Ile	Cys	Ile		
	1215	5				1220	)				122	5					
												gtc					3805
		Gly	Asp	Gly	Thr	Pro	Arg	Cys	Ser	Cys	Pro	Val	His	Leu	Val		
1230					1235					1240					1245		
												acc					3853
Leu	Leu	Gln	Asn			Thr	Cys	Gly	Glu	Pro	Pro	Thr	Cys	Ser	Pro		
				1250					1255					1260			
												atc				:	3901
Asp	Gln	Phe			Ala	Thr	Gly			Asp	Cys	Ile	Pro	Gly	Ala		
			1265					1270					1275				
												agc				3	3949
Trp				Gly	Phe				Asp	Asp	Gln	Ser		Glu	Glu		
		1280					1285					1290					

The party and the party of the

gg	tg:	C CC	gtg	g tgo	e tec	geo	gcc	cag	, tto	ccc	tg:	c gcg	g cgg	g ggt	t cag	3997
Gl	у Су:	s Pro	o Val	l Cys	s Ser	Ala	Ala	Gln	Phe	Pro	с Суз	s Alá	a Arç	g Gly	y Gln	
	129	95				130	0				130	05				
tgt	gt	g gad	cto	g cgc	ctg	g ege	tgo	gac	ggo	gag	g gca	a gad	tgt	cag	g gac	4045
Суя	s Val	l Asp	) Lei	ı Arg	g Leu	. Arg	Cys	Asp	Gly	glu'	Ala	a Asp	Cys	Glr	n Asp	
131	0				131	.5				132	. 0				1325	
cgo	tca	gac	gag	gtg	gac	tgt	gac	gcc	ato	tgo	ctg	g ccc	aac	cag	ttc	4093
Arg	Ser	Asp	Glu	. Val	Asp	Cys	Asp	Ala	Ile	Cys	Leu	ı Pro	Asn	Gln	Phe Phe	
				133	0				133	5				134	· 0	
cgg	tgt	gcg	agc	ggc	cag	tgt	gtc	ctc	atc	aaa	cag	cag	tgc	gac	tcc	4141
Arg	Cys	Ala	Ser	Gly	Gln	Cys	Val	Leu	Ile	Lys	Gln	Gln	Cys	Asp	Ser	
			134	5				135	)				135	5		
ttc	ccc	gac	tgt	atc	gac	ggc	tcc	gac	gag	ctc	atg	tgt	gaa	atc	acc	4189
												Cys				
		136					1365					137				
aag	ccg	ccc	tca	gac	gac	agc	ccg	gcc	cac	agc	agt	gcc	atc	ggg	ccc	4237
												Ala				
	137					1380					138			•		
gtc	att	ggc	atc	atc	ctc	tct	ctc	ttc	gtc	atg	ggt	ggt	atc	tat	ttt	4285
												Gly				
139					1395					1400		_		•	1405	
gtg	tgc	cag	cgc	gtg	gtg	tgc	cag	cgc	tat	gcq	ggg	gcc	aac	aaa		4333
												Ala				
				1410					1415		•			1420		
ttc	ccg	cac	gag	tat	gtc	agc	aaa	acc	ccg	cac	gtg	ccc	ctc			4381
												Pro				
			1425					1430					1435		-	
ata	gcc	ccg	ggc	ggt	tcc	cag	cat	ggc	ccc	ttc	aca	ggc			tac	4429
													Ile		_	

final fluid configuration of the fluid configuration of the configuratio

		1440	)				1445	5				1450	)			
gga	aag	tcc	atg	atg	agc	tcc	gtg	agc	ctg	atg	999	ggc	cgg	ggc	999	4477
Gly	Lys	Ser	Met	Met	Ser	Ser	Val	Ser	Leu	Met	Gly	Gly	Arg	Gly	Gly	
	1455	5				1460	)				1465	5				
gtg	ccc	ctc	tac	gac	cgg	aac	cac	gtc	aca	999	gcc	tcg	tcc	agc	agc	4525
Val	Pro	Leu	Tyr	Asp	Arg	Asn	His	Val	Thr	Gly	Ala	Ser	Ser	Ser	Ser	
1470	)				1479	5				1480	)				1485	
tcg	tcc	agc	acg	aag	gcc	acg	ctg	tac	ccg	ccg	atc	ctg	aac	ccg	ccg	4573
Ser	Ser	Ser	Thr	Lys	Ala	Thr	Leu	Tyr	Pro	Pro	Ile	Leu	Asn	Pro	Pro	
				1490	)				1495	5				1500	)	
ccc	tcc	ccg	gcc	acg	gac	CCC	tcc	ctg	tac	aac	atg	gac	atg	ttc	tac	4621
Pro	Ser	Pro	Ala	Thr	Asp	Pro	Ser	Leu	Tyr	Asn	Met	Asp	Met	Phe	Tyr	
			1505	5				1510	)				1515	5		
tct	tca	aac	att	ccg	gcc	act	gcg	aga	ccg	tac	agg	ccc	tac	atc	att	4669
Ser	Ser	Asn	Ile	Pro	Ala	Thr	Ala	Arg	Pro	Tyr	Arg	Pro	Tyr	Ile	Ile	
		1520	)				1525	5				1530	)			
cga	gga	atg	gcg	ccc	ccg	acg	acg	ccc	tgc	agc	acc	gac	gtg	tgt	gac	4717
Arg	Gly	Met	Ala	Pro	Pro	Thr	Thr	Pro	Cys	Ser	Thr	Asp	Val	Cys	Asp	
	1535	5				1540	)				1545	5				
agc	gac	tac	agc	gcc	agc	cgc	tgg	aag	gcc	agc	aag	tac	tac	ctg	gat	4765
	_	Tyr	Ser	Ala		Arg	Trp	Lys	Ala			Tyr	Tyr	Leu		
1550					1555					1560					1565	
						ccc						_				4813
Leu	Asn	Ser	Asp		_	Pro	Tyr	Pro			Pro	Thr	Pro			
				1570					1575					1580		1067
		_	_			gac -										4861
GIN	Tyr	Leu			Glu	Asp	ser			Pro	ser	Pro			GIU	
200	200	t > 6	1585		ctc	++2	000	1590		666	tcc	666	1595		C3C	4909
ayy	agc	LaC	LLC	Cat		ttc	ceg	CCC		ceg	CCC	CCC	Lyc	acg	gac	マフリフ

Arg Ser Tyr	Phe His Leu	Phe Pro Pro	Pro Pro Ser	Pro Cys Thr Asp	
160	0	1605		1610	
tca tcc tga	.cctcggc cggg	ccactc tggct	totot gtgccco	etgt aaatagtttt	4965
Ser Ser					
1615					
aaatatgaac a	aagaaaaaa at	atatttta tga	tttaaaa aataa	atata attgggattt	5025
taaaaacatg a	.gaaatgtga ac	tgtgatgg ggt	gggcagg gctgg	gagaa ctttgtacag	5085
tggagaaata t	ttataaact ta	attttgta aaa	ca		5120
<210> 3					
<211> 1615					
<212> PRT					
<213> Homo s	apiens				
<400> 3					
Met Glu Ala	Ala Pro Pro	Gly Pro Pro	Trp Pro Leu L	eu Leu Leu	
1	5		10	15	
Leu Leu Leu	Leu Ala Leu	Cys Gly Cys	Pro Ala Pro	Ala Ala Ala Ser	
	20	25		30	
Pro Leu Leu	Leu Phe Ala	Asn Arg Arg	Asp Val Arg	Leu Val Asp Ala	
35		40		45	
Gly Gly Val	Lys Leu Glu	Ser Thr Ile	Val Val Ser	Gly Leu Glu Asp	
50		55	60		
Ala Ala Ala	Val Asp Phe	Gln Phe Ser	Lys Gly Ala	Val Tyr Trp Thr	
65	70		75	80	
Asp Val Ser	Glu Glu Ala	Ile Lys Gln	Thr Tyr Leu	Asn Gln Thr Gly	
	85		90	95	
Ala Ala Val	Gln Asn Val	Val Ile Ser	Gly Leu Val	Ser Pro Asp Gly	

Leu	Ala	Cys	Asp	Trp	Val	Gly	Lys	Lys	Leu	ı Tyr	Trp	Thr	Asp	Ser	Glu
		115	5				120					125			
Thr	Asn	Arg	, Ile	Glu	. Val	Ala	Asn	Leu	Asn	Gly	Thr	Ser	Arg	Lys	Val
	130	1				135					140				
Leu	Phe	Trp	Gln	Asp	Leu	Asp	Gln	Pro	Lys	Ala	Ile	Ala	Leu	Asp	Pro
145					150					155					160
Ala	His	Gly	Tyr	Met	Tyr	Trp	Thr	Asp	Trp	Gly	Glu	Thr	Pro	Arg	Ile
				165					170					175	
Glu	Arg	Ala	Gly	Met	Asp	Gly	Ser	Thr	Arg	Lys	Ile	Ile	Val	Asp	Ser
			180					185					190		
Asp	Ile	Tyr	Trp	Pro	Asn	Gly	Leu	Thr	Ile	Asp	Leu	Glu	Glu	Gln	Lys
		195					200					205			
Leu	Tyr	Trp	Ala	Asp	Ala	Lys	Leu	Ser	Phe	Ile	His	Arg	Ala	Asn	Leu
	210					215					220				
Asp	Gly	Ser	Phe	Arg	Gln	Lys	Val	Val	Glu	Gly	Ser	Leu	Thr	His	Pro
225					230					235					240
Phe	Ala	Leu	Thr	Leu	Ser	Gly	Asp	Thr	Leu	Tyr	Trp	Thr	Asp	Trp	Gln
				245					250					255	
Thr	Arg	Ser	Ile	His	Ala	Cys	Asn	Lys	Arg	Thr	Gly	Gly	Lys	Arg	Lys
			260					265					270		
Glu	Ile	Leu	Ser	Ala	Leu	Tyr	Ser	Pro	Met	Asp	Ile	Gln	Val	Leu	Ser
		275					280					285			
Gln	Glu	Arg	Gln	Pro	Phe	Phe	His	Thr	Arg	Cys	Glu	Glu	Asp	Asn	Gly
	290					295					300				
Gly	Trp	Ser	His	Leu	Cys	Leu	Leu	Ser	Pro	Ser	Glu	Pro	Phe	Tyr	Thr
305					310					315					320
Cys	Ala	Cys	Pro	Thr	Gly	Val	Gln	Met	Gln	Asp	Asn	Gly	Arg	Thr	Cys
				325					330					335	
Lys	Ala	Gly	Ala	Glu	Glu	Val	Leu	Leu	Leu	Ala	Arg	Arg	Thr	Asp	Leu

			340					345					350		
Arg	Arg	Ile	Ser	Leu	Asp	Thr	Pro	Asp	Phe	Thr	Asp	Ile	Val	Leu	Gln
		355					360					365			
Val	Asp	Asp	Ile	Arg	His	Ala	Ile	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Glu
	370					375					380				
Gly	Tyr	Val	Tyr	Trp	Thr	Asp	Asp	Glu	Val	Arg	Ala	Ile	Arg	Arg	Ala
385					390					395					400
Tyr	Leu	Asp	Gly	Ser	Gly	Ala	Gln	Thr	Leu	Val	Asn	Thr	Glu	Ile	Asn
				405					410					415	
Asp	Pro	Asp	Gly	Ile	Ala	Val	Asp	Trp	Val	Ala	Arg	Asn	Leu	Tyr	Trp
			420					425					430		
Thr	Asp	Thr	Gly	Thr	Asp	Arg	Ile	Glu	Val	Thr	Arg	Leu	Asn	Gly	Thr
		435					440					445			
Ser	Arg	Lys	Ile	Leu	Val	Ser	Glu	Asp	Leu	Asp	Glu	Pro	Arg	Ala	Ile
	450					455					460				
Ala	Leu	His	Pro	Val	Met	Gly	Leu	Met	Tyr	Trp	Thr	Asp	Trp	Gly	Glu
465					470					475					480
Asn	Pro	Lys	Ile	Glu	Cys	Ala	Asn	Leu	Asp	Gly	Gln	Glu	Arg	Arg	Val
				485					490					495	
Leu	Val	Asn	Ala	Ser	Leu	Gly	Trp	Pro	Asn	Gly	Leu	Ala	Leu	Asp	Leu
			500					505					510		
Gln	Glu	Gly	Lys	Leu	Tyr	Trp	Gly	Asp	Ala	Lys	Thr	Asp	Lys	Ile	Glu
		515					520					525			
Val	Ile	Asn	Val	Asp	Gly	Thr	Lys	Arg	Arg	Thr	Leu	Leu	Glu	Asp	Lys
	530					535					540				
Leu	Pro	His	Ile	Phe	Gly	Phe	Thr	Leu	Leu	Gly	Asp	Phe	Ile	Tyr	Trp
545					550					555					560
Thr	Asp	Trp	Gln	Arg	Arg	Ser	Ile	Glu	Arg	Val	His	Lys	Val	Lys	Ala
				565					570					575	

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Annual Control	3
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3,	22

Ser	Arg	Asp	Val	. Ile	: Ile	Asp	Gln	Leu	Pro	Asp	Leu	Met	Gly	Leu	Lys
			580	)				585					590		
Ala	Val	Asn	Val	Ala	Lys	Val	. Val	Gly	Thr	Asn	Pro	Cys	Ala	Asp	Arg
		595					600					605			
Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Phe	Phe	Thr	Pro	His	Ala	Thr	Arg
	610					615					620				
Cys	Gly	Cys	Pro	Ile	Gly	Leu	Glu	Leu	Leu	Ser	Asp	Met	Lys	Thr	Cys
625					630					635					640
Ile	Val	Pro	Glu	Ala	Phe	Leu	Val	Phe	Thr	Ser	Arg	Ala	Ala	Ile	His
				645					650					655	
Arg	Ile	Ser	Leu	Glu	Thr	Asn	Asn	Asn	Asp	Val	Ala	Ile	Pro	Leu	Thr
			660					665					670		
Gly	Val	Lys	Glu	Ala	Ser	Ala	Leu	Asp	Phe	Asp	Val	Ser	Asn	Asn	His
		675					680					685			
Ile	Tyr	Trp	Thr	Asp	Val	Ser	Leu	Lys	Asn	Ile	Ser	Arg	Ala	Phe	Met
	690					695					700				
Asn	Gly	Ser	Ser	Val	Glu	His	Val	Val	Glu	Phe	Gly	Leu	Asp	Tyr	Pro
705					710					715					720
Glu	Gly	Met	Ala	Val	Asp	Trp	Met	Gly	Lys	Asn	Leu	Tyr	Trp	Ala	Asp
				725					730					735	
Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Ala	Arg	Leu	Asp	Gly	Gln	Phe	Arg
			740					745					750		
Gln	Val	Leu	Val	Trp	Arg	Asp	Leu	Asp	Asn	Pro	Arg	Ser	Leu	Ala	Leu
		755					760					765			
Asp	Pro	Thr	Lys	Gly	Tyr	Ile	Tyr	Trp	Thr	Glu	Trp	Gly	Gly	Lys	Pro
	770					775					780				
Arg	Ile	Val	Arg	Ala	Phe	Met	Asp	Gly	Thr	Asn	Cys	Met	Thr	Leu	Val
785					790					795					800
Asp	Lys	Val	Gly	Arg	Ala	Asn	Asp	Leu	Thr	Ile	Asp	Tyr	Ala	Asp	Gln

				805					810					815	
Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	Ser	Ser	Asn
			820					825					830		
Met	Leu	Gly	Gln	Glu	Arg	Val	Val	Ile	Ala	Asp	Asp	Leu	Pro	His	Pro
		835					840					845			
Phe	Gly	Leu	Thr	Gln	Tyr	Ser	Asp	Tyr	Ile	Tyr	Trp	Thr	Asp	Trp	Asn
	850					855					860				
Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	Asn	Arg	Thr
865					870					875					880
Leu	Ile	Gln	Gly	His	Leu	Asp	Phe	Val	Met	Asp	Ile	Leu	Val	Phe	His
				885					890					895	
Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	Asn	Gly	Gln
			900					905					910		
Cys	Gly	Gln	Leu	Cys	Leu	Ala	Ile	Pro	Gly	Gly	His	Arg	Cys	Gly	Cys
		915					920					925			
Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Cys	Ser	Pro	Pro
	930					935					940				
Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	Arg	Met	Ile
945					950					955					960
Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	His	Gly	Leu
				965					970					975	
Arg	Asn	Val	Lys	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Asp	Lys	Phe	Ile	Tyr
			980					985					990		
Trp	Val	Asp	Gly	Arg	Gln	Asn	Ile	Lys	Arg	Ala	Lys	Asp	Asp	Gly	Thr
		995					1000					1005			
Gln	Pro	Phe	Val	Leu	Thr	Ser	Leu	Ser	Gln	Gly	Gln	Asn	Pro	Asp	Arg
	1010					1015					1020				
Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	Leu	Phe	Trp
1025					1030					1035					1040

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Thr	Cys	Gli	ı Ala	Thr	Asn	Thr	Ile	. Asn	Val	His	Arg	Leu	Ser	Gly	Glu
				104	5				105	0				105	5
Ala	a Met	Gly	/ Val	Val	Leu	Arg	Gly	Asp	Arg	Asp	Lys	Pro	Arg	Ala	Ile
			106	0				106	5				107	0	
Val	. Val	Asn	Ala	Glu	Arg	Gly	Tyr	Leu	Tyr	Phe	Thr	Asn	Met	Gln	Asp
		107	5				108	0				108	5		
Arg	Ala	Ala	Lys	Ile	Glu	Arg	Ala	Ala	Leu	Asp	Gly	Thr	Glu	Arg	Glu
	109	0				109	5				110	0			
Val	Leu	Phe	Thr	Thr	Gly	Leu	Ile	Arg	Pro	Val	Ala	Leu	Val	Val	Asp
110	5				111	0				111	5				1120
Asn	Thr	Leu	Gly	Lys	Leu	Phe	Trp	Val	Asp	Ala	Asp	Leu	Lys	Arg	Ile
				112	5				113	0				113	5
Glu	Ser	Cys	Asp	Leu	Ser	Gly	Ala	Asn	Arg	Leu	Thr	Leu	Glu	Asp	Ala
			114	0				1149	5				115	0	
Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	Ile	Leu	Gly	Lys	His	Leu	Tyr
		115	5				116	0				1169	5		
Trp	Ile	Asp	Arg	Gln	Gln	Gln	Met	Ile	Glu	Arg	Val	Glu	Lys	Thr	Thr
	117	0				1175	5				1180	)			
Gly	Asp	Lys	Arg	Thr	Arg	Ile	Gln	Gly	Arg	Val	Ala	His	Leu	Thr	Gly
118	5				1190	)				1195	5				1200
Ile	His	Ala	Val	Glu	Glu	Val	Ser	Leu	Glu	Glu	Phe	Ser	Ala	His	Pro
				1205	5				1210	)				1215	;
Cys	Ala	Arg	Asp	Asn	Gly	Gly	Cys	Ser	His	Ile	Cys	Ile	Ala	Lys	Gly
			1220	)				1225	,				1230	)	
Asp	Gly	Thr	Pro	Arg	Cys	Ser	Cys	Pro	Val	His	Leu	Val	Leu	Leu	Gln
		1235	5				1240	)				1245			
Asn	Leu	Leu	Thr	Cys	Gly	Glu	Pro	Pro	Thr	Cys	Ser	Pro	Asp	Gln	Phe
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Ala	Cys	Ala	Thr	Gly	Glu	Ile	Asp	Cys	Ile	Pro	Gly	Ala	Trp	Arg	Cys

126	5				127	0				127	5				1280
Asp	Gly	Phe	Pro	Glu	Cys	Asp	Asp	Gln	Ser	Asp	Glu	Glu	Gly	Cys	Pro
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Val	Cys	Ser	Ala	Ala	Gln	Phe	Pro	Cys	Ala	Arg	Gly	Gln	Cys	Val	Asp
			1300	0				130	5				131	)	
Leu	Arg	Leu	Arg	Cys	Asp	Gly	Glu	Ala	Asp	Cys	Gln	Asp	Arg	Ser	Asp
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Glu	Val	Asp	Cys	Asp	Ala	Ile	Cys	Leu	Pro	Asn	Gln	Phe	Arg	Cys	Ala
	133	0				1335	5				1340	)			
Ser	Gly	Gln	Cys	Val	Leu	Ile	Lys	Gln	Gln	Cys	Asp	Ser	Phe	Pro	Asp
1349	5				1350	)				1355	5				1360
Cys	Ile	Asp	Gly	Ser	Asp	Glu	Leu	Met	Cys	Glu	Ile	Thr	Lys	Pro	Pro
				1365	5				1370	)				1375	5
Ser	Asp	Asp	Ser	Pro	Ala	His	Ser	Ser	Ala	Ile	Gly	Pro	Val	Ile	Gly
			1380	)				1385	5				1390	)	
Ile	Ile	Leu	Ser	Leu	Phe	Val	Met	Gly	Gly	Val	Tyr	Phe	Val	Cys	Gln
		1395	5				1400	)				1405	5		
Arg	Val	Val	Cys	Gln	Arg	Tyr	Ala	Gly	Ala	Asn	Gly	Pro	Phe	Pro	His
	1410	)				1415	5				1420	)			
Glu	Tyr	Val	Ser	Gly	Thr	Pro	His	Val	Pro	Leu	Asn	Phe	Ile	Ala	Pro
1425	5				1430	)				1435	5				1440
Gly	Gly	Ser	Gln	His	Gly	Pro	Phe	Thr	Gly	Ile	Ala	Cys	Gly	Lys	Ser
				1445	5				1450	)				1455	i
Met	Met	Ser	Ser	Val	Ser	Leu	Met	Gly	Gly	Arg	Gly	Gly	Val	Pro	Leu
			1460	)				1465	5				1470	)	
Tyr	Asp	Arg	Asn	His	Val	Thr	Gly	Ala	Ser						
		1475	5				1480	)				1485	5		
Thr	Lys	Ala	Thr	Leu	Tyr	Pro	Pro	Ile	Leu	Asn	Pro	Pro	Pro	Ser	Pro
	1490	)				1495	;				1500	)			

First tree, given yet to be the second to th

Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser <210> 4 <211> 1615 <212> PRT <213> Homo sapiens <400> 4 Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser

Pro Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala

Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp

then the construction of t

	50					55					60				
Ala	Ala	Ala	Val	Asp	Phe	Gln	Phe	Ser	Lys	Gly	Ala	Val	Tyr	Trp	Thr
65					70					75					80
Asp	Val	Ser	Glu	Glu	Ala	Ile	Lys	Gln	Thr	Tyr	Leu	Asn	Gln	Thr	Gly
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Ala	Ala	Val	Gln	Asn	Val	Val	Ile	Ser	Gly	Leu	Val	Ser	Pro	Asp	Gly
			100					105					110		
Leu	Ala	Cys	Asp	Trp	Val	Gly	Lys	Lys	Leu	Tyr	Trp	Thr	Asp	Ser	Glu
		115					120					125			
Thr	Asn	Arg	Ile	Glu	Val	Ala	Asn	Leu	Asn	Gly	Thr	Ser	Arg	Lys	Val
	130					135					140				
Leu	Phe	Trp	Gln	Asp	Leu	Asp	Gln	Pro	Lys	Ala	Ile	Ala	Leu	Asp	Pro
145					150					155					160
Ala	His	Gly	Tyr	Met	Tyr	Trp	Thr	Asp	Trp	Val	Glu	Thr	Pro	Arg	Ile
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Glu	Arg	Ala	Gly	Met	Asp	Gly	Ser	Thr	Arg	Lys	Ile	Ile	Val	Asp	Ser
			180					185					190		
Asp	Ile	Tyr	Trp	Pro	Asn	Gly	Leu	Thr	Ile	Asp	Leu	Glu	Glu	Gln	Lys
		195					200					205			
Leu	Tyr	Trp	Ala	Asp	Ala	Lys	Leu	Ser	Phe	Ile	His	Arg	Ala	Asn	Leu
	210					215					220				
Asp	Gly	Ser	Phe	Arg	Gln	Lys	Val	Val	Glu	Gly	Ser	Leu	Thr	His	Pro
225					230					235					240
Phe	Ala	Leu	Thr	Leu	Ser	Gly	Asp	Thr	Leu	Tyr	Trp	Thr	Asp	Trp	Gln
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Thr	Arg	Ser	Ile	His	Ala	Cys	Asn	Lys	Arg	Thr	Gly	Gly	Lys	Arg	Lys
			260					265					270		
Glu	Ile	Leu	Ser	Ala	Leu	Tyr	Ser	Pro	Met	Asp	Ile	Gln	Val	Leu	Ser
		275					280					285			

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Gln	Glu	Arg	Gln	Pro	Phe	Phe	His	Thr	Arg	Cys	Glu	Glu	Asp	Asn	Gly
	290					295					300				
Gly	Trp	Ser	His	Leu	Cys	Leu	Leu	Ser	Pro	Ser	Glu	Pro	Phe	Tyr	Thi
305					310					315					320
Cys	Ala	Cys	Pro	Thr	Gly	Val	Gln	Met	Gln	Asp	Asn	Gly	Arg	Thr	Cys
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Lys	Ala	Gly	Ala	Glu	Glu	Val	Leu	Leu	Leu	Ala	Arg	Arg	Thr	Asp	Leu
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Arg	Arg	Ile	Ser	Leu	Asp	Thr	Pro	Asp	Phe	Thr	Asp	Ile	Val	Leu	Glr
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Val	Asp	Asp	Ile	Arg	His	Ala	Ile	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Glu
	370					375					380				
Gly	Tyr	Val	Tyr	Trp	Thr	Asp	Asp	Glu	Val	Arg	Ala	Ile	Arg	Arg	Ala
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Tyr	Leu	Asp	Gly	Ser	Gly	Ala	Gln	Thr	Leu	Val	Asn	Thr	Glu	Ile	Asn
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Asp	Pro	Asp	Gly	Ile	Ala	Val	Asp	Trp	Val	Ala	Arg	Asn	Leu	Tyr	Trp
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Thr	Asp	Thr	Gly	Thr	Asp	Arg	Ile	Glu	Val	Thr	Arg	Leu	Asn	Gly	Thr
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Ser	Arg	Lys	Ile	Leu	Val	Ser	Glu	Asp	Leu	Asp	Glu	Pro	Arg	Ala	Ile
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Ala	Leu	His	Pro	Val	Met	Gly	Leu	Met	Tyr	Trp	Thr	Asp	Trp	Gly	Glu
465					470					475					480
Asn	Pro	Lys	Ile	Glu	Cys	Ala	Asn	Leu	Asp	Gly	Gln	Glu	Arg	Arg	Val
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Leu	Val	Asn	Ala	Ser	Leu	Gly	Trp	Pro	Asn	Gly	Leu	Ala	Leu	Asp	Leu
			500					505					510		
Gln	Glu	Glv	Lvs	Leu	Tvr	Trn	Glv	Asn	Δla	Lare	Thr	Aer	Lve	Tle	Glu

Live selection of the s

		515					520					525			
Val	Ile	Asn	Val	Asp	Gly	Thr	Lys	Arg	Arg	Thr	Leu	Leu	Glu	Asp	Lys
	530					535					540				
Leu	Pro	His	Ile	Phe	Gly	Phe	Thr	Leu	Leu	Gly	Asp	Phe	Ile	Tyr	Trp
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Thr	Asp	Trp	Gln	Arg	Arg	Ser	Ile	Glu	Arg	Val	His	Lys	Val	Lys	Ala
				565					570					575	
Ser	Arg	Asp	Val	Ile	Ile	Asp	Gln	Leu	Pro	Asp	Leu	Met	Gly	Leu	Lys
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Ala	Val	Asn	Val	Ala	Lys	Val	Val	Gly	Thr	Asn	Pro	Cys	Ala	Asp	Arg
		595					600					605			
Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Phe	Phe	Thr	Pro	His	Ala	Thr	Arg
	610					615					620				
Cys	Gly	Cys	Pro	Ile	Gly	Leu	Glu	Leu	Leu	Ser	Asp	Met	Lys	Thr	Cys
625					630					635					640
Ile	Val	Pro	Glu	Ala	Phe	Leu	Val	Phe	Thr	Ser	Arg	Ala	Ala	Ile	His
				645					650					655	
Arg	Ile	Ser	Leu	Glu	Thr	Asn	Asn	Asn	Asp	Val	Ala	Ile	Pro	Leu	Thr
			660					665					670		
Gly	Val	Lys	Glu	Ala	Ser	Ala	Leu	Asp	Phe	Asp	Val	Ser	Asn	Asn	His
		675					680					685			
Ile	Tyr	Trp	Thr	Asp	Val	Ser	Leu	Lys	Asn	Ile	Ser	Arg	Ala	Phe	Met
	690					695					700				
Asn	Gly	Ser	Ser	Val	Glu	His	Val	Val	Glu	Phe	Gly	Leu	Asp	Tyr	Pro
705					710					715					720
Glu	Gly	Met	Ala	Val	Asp	Trp	Met	Gly	Lys	Asn	Leu	Tyr	Trp	Ala	Asp
				725					730					735	
Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Ala	Arg	Leu	Asp	Gly	Gln	Phe	Arg
			740					745					750		

And the first the fight of the first through the state of the control of the cont

Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser Leu Ala Leu

Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly Gly Lys Pro

	Arg	Ile	Val	Arg	Ala	Phe	Met	Asp	Gly	Thr	Asn	Cys	Met	Thr	Leu	Val
	785					790					795					800
	Asp	Lys	Val	Gly	Arg	Ala	Asn	Asp	Leu	Thr	Ile	Asp	Tyr	Ala	Asp	Gln
					805					810					815	
	Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	Ser	Ser	Asn
				820					825					830		
- 19 - 28	Met	Leu	Gly	Gln	Glu	Arg	Val	Val	Ile	Ala	Asp	Asp	Leu	Pro	His	Pro
5-4 			835					840					845			
	Phe	Gly	Leu	Thr	Gln	Tyr	Ser	Asp	Tyr	Ile	Tyr	Trp	Thr	Asp	Trp	Asn
		850					855					860				
	Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	Asn	Arg	Thr
2	865					870					875					880
	Leu	Ile	Gln	Gly	His	Leu	Asp	Phe	Val	Met	Asp	Ile	Leu	Val	Phe	His
					885					890					895	
7. <del>25</del> 11 tu 1 g	Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	Asn	Gly	Gln
				900					905					910		
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			915					920					925			
	Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Cys	Ser	Pro	Pro
		930					935					940				
	Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	Arg	Met	Ile
	945					950					955					960
	Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	His	Gly	Leu

Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys Phe Ile Tyr

			980					985					990	ı	
Trp	Val	Asp	Gly	Arg	Gln	Asn	Ile	Lys	Arg	Ala	Lys	Asp	Asp	Gly	Thr
		995					100	0				100	5		
Gln	Pro	Phe	Val	Leu	Thr	Ser	Leu	Ser	Gln	Gly	Gln	Asn	Pro	Asp	Arg
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Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	Leu	Phe	Trp
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Thr	Cys	Glu	Ala	Thr	Asn	Thr	Ile	Asn	Val	His	Arg	Leu	Ser	Gly	Glu
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Ala	Met	Gly	Val	Val	Leu	Arg	Gly	Asp	Arg	Asp	Lys	Pro	Arg	Ala	Ile
			106	0				106	5				107	0	
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Arg	Ala	Ala	Lys	Ile	Glu	Arg	Ala	Ala	Leu	Asp	Gly	Thr	Glu	Arg	Glu
	1090	)				1099	5				1100	)			
Val	Leu	Phe	Thr	Thr	Gly	Leu	Ile	Arg	Pro	Val	Ala	Leu	Val	Val	Asp
1105	;				1110	)				1115	5				1120
Asn	Thr	Leu	Gly	Lys	Leu	Phe	Trp	Val	Asp	Ala	Asp	Leu	Lys	Arg	Ile
				1125	i				1130	)				1135	5
Glu	Ser	Cys	Asp	Leu	Ser	Gly	Ala	Asn	Arg	Leu	Thr	Leu	Glu	Asp	Ala
			1140	)				1145	5				1150		
Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	Ile	Leu	Gly	Lys	His	Leu	Tyr
		1155	i				1160	)				1165	i		
Trp	Ile	qaA	Arg	Gln	Gln	Gln	Met	Ile	Glu	Arg	Val	Glu	Lys	Thr	Thr
	1170	)				1175					1180				
Gly	Asp	Lys	Arg	Thr	Arg	Ile	Gln	Gly	Arg	Val	Ala	His	Leu	Thr	Gly
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Ile	His	Ala	Val	Glu	Glu	Val	Ser	Leu	Glu	Glu	Phe	Ser	Ala	His	Pro
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Asp	Gly	Thr	Pro	Arg	Cys	Ser	Cys	Pro	Val	His	Leu	Val	Leu	Leu	Gln
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	125	0				125	5				126	0			
Ala	Cys	Ala	Thr	Gly	Glu	Ile	Asp	Cys	Ile	Pro	Gly	Ala	Trp	Arg	Cys
1265	õ				127	0				127	5				1280
Asp	Gly	Phe	Pro	Glu	Cys	Asp	Asp	Gln	Ser	Asp	Glu	Glu	Gly	Cys	Pro
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Val	Cys	Ser	Ala	Ala	Gln	Phe	Pro	Cys	Ala	Arg	Gly	Gln	Cys	Val	Asp
			1300	)				1305	5				1310	)	
Leu	Arg	Leu	Arg	Cys	Asp	Gly	Glu	Ala	Asp	Cys	Gln	Asp	Arg	Ser	Asp
		1315	5				1320					1325	5		
Glu	Val	Asp	Cys	Asp	Ala	Ile	Cys	Leu	Pro	Asn	Gln	Phe	Arg	Cys	Ala
	1330	)				1335	5				1340	)			
Ser	Gly	Gln	Cys	Val	Leu	Ile	Lys	Gln	Gln	Cys	Asp	Ser	Phe	Pro	Asp
1345					1350	)				1355	5				1360
Cys	Ile	Asp	Gly	Ser	Asp	Glu	Leu	Met	Cys	Glu	Ile	Thr	Lys	Pro	Pro
				1365	5				1370	)				1375	5
Ser	Asp	Asp	Ser	Pro	Ala	His	Ser	Ser	Ala	Ile	Gly	Pro	Val	Ile	Gly
			1380	1				1385					1390	)	
Ile	Ile	Leu	Ser	Leu	Phe	Val	Met	Gly	Gly	Val	Tyr	Phe	Val	Cys	Gln
		1395					1400					1405	i		
Arg	Val	Val	Cys	Gln	Arg	Tyr	Ala	Gly	Ala	Asn	Gly	Pro	Phe	Pro	His
	1410					1415					1420				
Glu '	Tyr	Val	Ser	Gly	Thr	Pro	His	Val	Pro	Leu	Asn	Phe	Ile	Ala	Pro
1425					1430					1435					1440
alv i	Glv	Ser	Gln	His	Glv	Pro	Dhe	Thr	Glv.	Tla	ת [ ת	C1.4	C111	Tarc	Cor

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1445 1450 1455

Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly Val Pro Leu

1460 1465 1470

Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser Ser Ser

1475 1480 1485

Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro Pro Ser Pro

1490 1495 1500

Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn

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Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met

1525 1530 1535

Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr

1540 1545 1550

Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser

1555 1560 1565

Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu

1570 1575 1580

Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr

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Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser

1605 1610 1615

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<211> 3096

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<213> Homo sapiens

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<223> Identity of nucleotide sequences at the above locations are unknown.

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<222> (8356), (8385), (38585)

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